

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 05234882
PUBLICATION DATE : 10-09-93

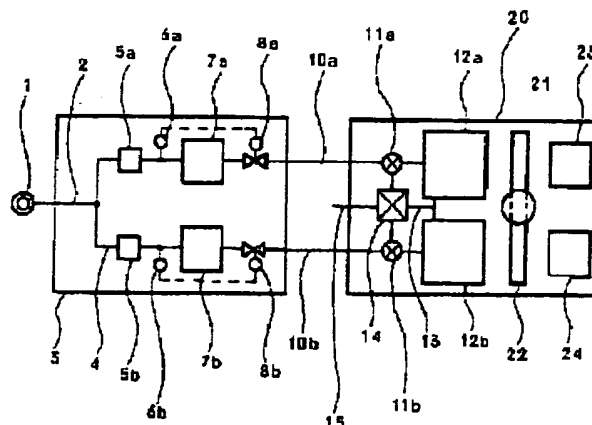
APPLICATION DATE : 21-02-92
APPLICATION NUMBER : 04034741

APPLICANT : HITACHI LTD;

INVENTOR : HASHIZAKI MOTOHIRO;

INT.CL. : H01L 21/027 H01L 21/302 H01L 21/304

TITLE : SURFACE TREATING APPARATUS



ABSTRACT : PURPOSE: To eliminate deterioration by oxidation corrosion due to ozone by installing an ozone material gas flowrate control mechanism at an upstream of an ozone generating position of an ozone generator pipe system at each system.

CONSTITUTION: Oxygen to become a material of ozone is supplied from a gas supply source 1 to an ozone generator 3 via a tube 2, and branched to two systems therein by a branch tube 4. Distributed oxygen is fed through flowrate control means 5a, pressure detecting means 6a to ozone generating means 7a and further through a variable throttle valve 8a, out of the generator 3, and fed to a switching valve 11a, a treating chamber 12a in a surface treating apparatus 20 via a tube 10a. Exhaust gas is guided through an exhaust tube 13 and an ozone decomposing unit 14 to an exhaust duct 15. Thus, since setting control of ozone flow rate is executed at a stage of oxygen of material gas, control of flowrate setting means is not deteriorated by oxidation corrosion due to the ozone.

COPYRIGHT: (C)1993,JPO&Japio